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ClimSA Climate services in West Africa

Presented by:

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On behalf of:

ClimSA –WA project team

16th EUMETSAT User Forum in Africa
Cotonou, Benin 16-20 September 2024



Outline



- I. General information
- II. ClimSA activities in WA
- III. Feedback

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General information



Overall Objective

- Contribute to foster sustainable development by **strengthening the climate services value chain** at the regional, national and sub-national levels

Specific Objectives

- **Improve interaction** between the users, researchers and providers;
- **Enhance provision** of climate services at regional and national levels (CSIS);
- **Improve access** to climate information;
- **Enhance capacity to generate and use** climate information and products
- **Strengthen climate-informed decision-making** processes at regional and national levels.
- **Designation** by WMO of AGRHYMET as an RCC

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INTRA-ACP CLIMATE SERVICES AND RELATED APPLICATIONS PROGRAMME

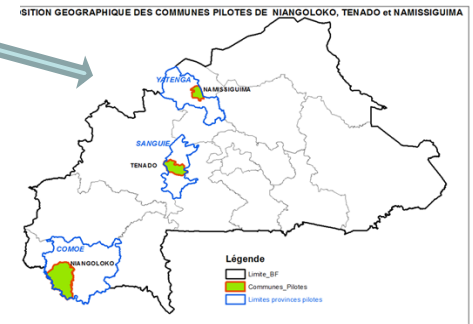
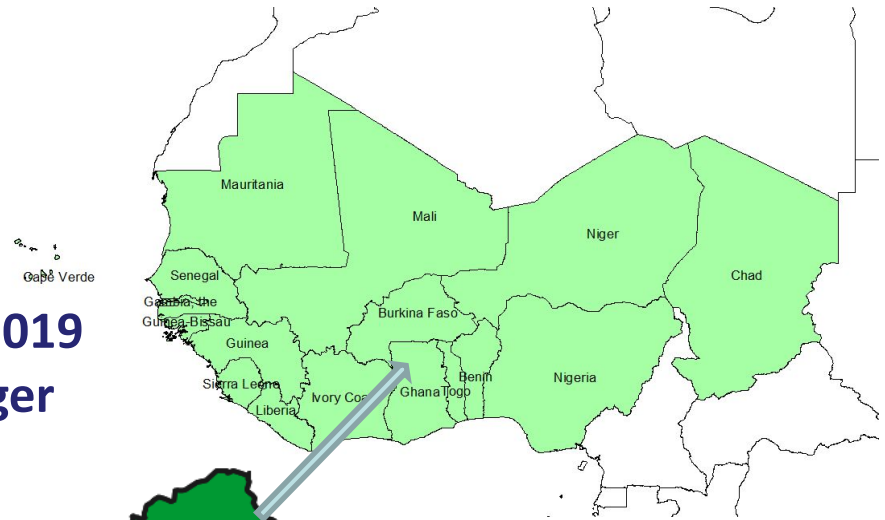


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General information

- 17 Countries (15 ECOWAS + Mauritania and Chad)
- 1 Pilot country : Burkina Faso
- Initial grant signed in December 2019 between AGRHYMET and EUD Niger
- Total Budget : 8 millions euros for 4 years
- 1 year no cost extension granted till December 2024



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INTRA-ACP CLIMATE SERVICES AND RELATED APPLICATIONS PROGRAMME



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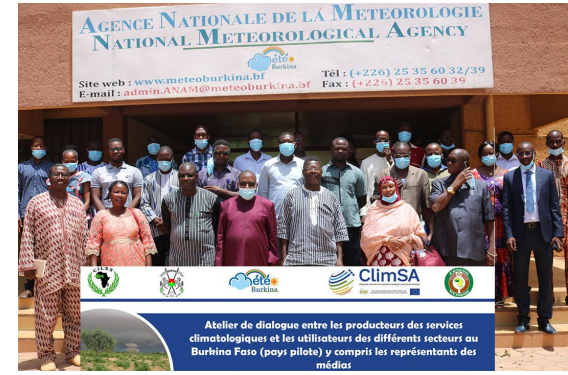


OUTPUT ONE : The interaction between users and providers of climate services is better structured



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- In 2021, **MoU signed with ANAM Burkina Faso** as pilot country for the implementation of project activities
- Since 2021, **dialogue workshops with end-users** of climate information at national level and 3 rural communities (Niangoloko, Ténado and Namissiguima) in Burkina Faso
- Since 2021, regular **missions to assess** the level of use of agrometeorological information sent by ANAM to producers in the 3 pilot sites
- Since 2022, **financial support** to NMS to organize communication workshops with users





OUTPUT ONE : The interaction between users and providers of climate services is better structured



Plan Stratégique de l'ONM 2024-2030



Plan stratégique National 2024-2030

Office National de la Météorologie (ONM)

Votre partenaire stratégique et incontournable offrant des services météorologiques et climatologiques de qualité.



Version Juin 2023

- Since February 2023, launch of the process of establishing the **NFWCS in Mauritania**
- 27th April 2023 : Setting up **Regional UIPs** on:
 - ✓ Agriculture and food security
 - ✓ Water resources and DRR
 - ✓ Climate Security (2024)
- 27th April 2023: Setting up a **regional network of communicators of climate information**



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OUTPUT ONE : The interaction between users and providers of climate services is better structured



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• 16th May 2023:
National **Coproduction workshop** on the exploitation of seasonal forecast results in Burkina Faso



• 31st May 2023:
Training workshop of the **network of communicators of climate information in Burkina Faso**





OUTPUT TWO: The provision of climate services at regional and national levels is effectively ensured



Since 2020, ClimSA contribute:

- Organization of the **PRESAGG** Climate outlook forums
- Organization of the **PRESASS** Climate outlook forums
- Communication Workshops on the results of the **PRESASS Climate outlook forum in the 3 pilot rural communities in Burkina Faso**



PROGRAMME

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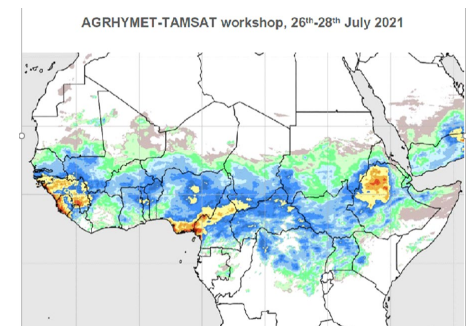
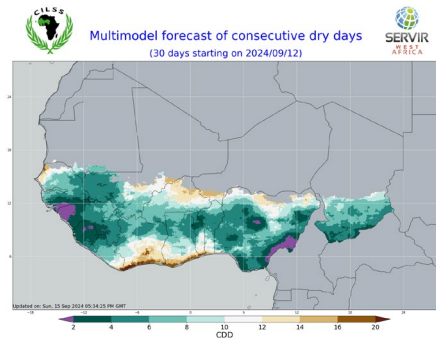


OUTPUT TWO: The provision of climate services at regional and national levels is effectively ensured



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- Since 2020, **partnership** with SERVIR-WA through the University of Santa Barbara (USA) in developing intra-seasonal climate products
- Since 2020, **partnership** with TAMSAT and organization in July 2021 of a joint AGRHYMET/TAMSAT **regional workshop** on “exploiting developments in satellite rainfall estimates for agrometeorological applications”
- Since 2021 : Contribution to the WMO/ACMAD publication “**State of the Climate in Africa**”





OUTPUT TWO: The provision of climate services at regional and national levels is effectively ensured



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- 06 - 11 February 2023 : **ToT** workshop organized in Burkina Faso for the **ingestion of AWS data into the Climsoft DBMS**
- March 2023: 5 experts attended the **ToT** workshop on the **ClimSA Station** organized by the JRC in Italy.
- **Support missions** to Burkina Faso, Guinea Bissau and Chad to train the National Meteorological Service staff on the **Climsoft DBMS**





OUTPUT TWO: The provision of climate services at regional and national levels is effectively ensured



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- 2021-2022 : Installation of the prototype of C-Station at AGRHYMET with support from JRC
- In 2021 and 2022 : **Support missions** to Liberia, Sierra Leone, Senegal and Chad for the maintenance and training on **PUMA/MESA**
- In 2021 and 2022: **Support missions** to Togo, Benin, Mauritania, The Gambia, Nigeria, and Senegal for the maintenance and training on the **CLIDATA**
- In 2022 : **ToT on the IRI NextGen**, Climate data management and forecasting tools (ENACTS/PyCPT)
- May 2022: **Regional face to face** training workshop of NMHSs staff on the **CLIMSOFT** in Niamey.





OUTPUT TWO: The provision of climate services at regional and national levels is effectively ensured

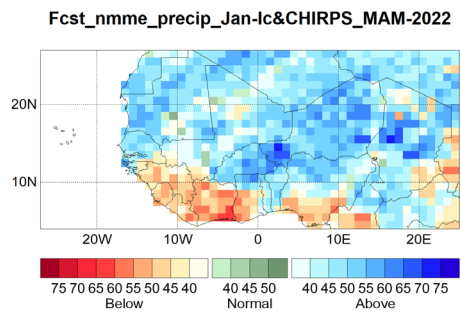
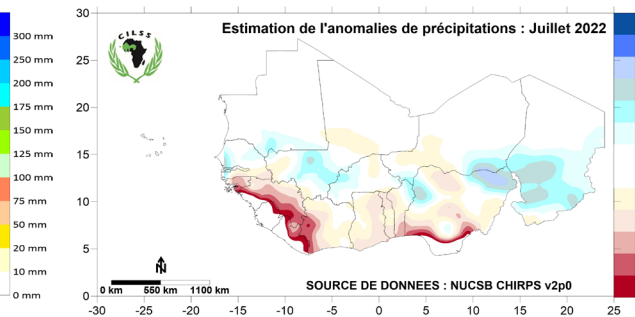
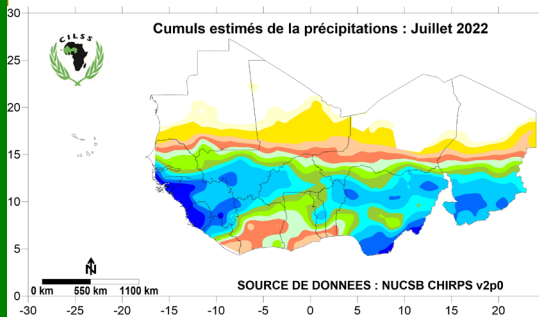


- Since September 2021, launch of the **RCC-WA** in demonstration **web portal** which is updated every month with climate monitoring and forecast bulletins and maps

(<http://ccr-agrhymet.cilss.int/>)



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OUTPUT THREE: Access to climate information is improved



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- In 2021 and 2022, **agrometeorological bulletins** by ANAM and communicated via **community radios** in local languages

- Namissiguima : Radio « la voix du paysan » in French and Mooré
- Ténado : Radio « la voix du Sanguié » in French and Lélé;
- Niangoloko : Radio « ARC-FM » in French, Dioula and Tcherma

- Since 2021 : provision of agrometeorological advices for the main **crops to the farmers** of 3 pilot rural communities in Burkina Faso

- Namissiguima : Millet , Sorghum
- Ténado : Sorghum, Millet
- Niangoloko : Maize, Rice, Cowpea, groundnuts

MINISTRE DES TRANSPORTS, DE LA MOBILITÉ URBAINES ET DE LA SÉCURITÉ ROUTIÈRE
AGENCES NATIONALES DE LA MÉTÉOROLOGIE
DIRECTION DES APPLICATIONS ET DE LA PRÉVISION DES RISQUES

BURKINA FASO
Lima - Programm - Justice

CILSS
Météo Burkina
ClimSA

BULLETIN AGROMÉTÉOROLOGIQUE
ZONE CLIMAT. NIANGOLOKO
Mercredi 18 Septembre 2024 à 15 heures

1. Le temps des dernières 24 heures

Au cours des dernières 24 heures, le ciel a été très nuageux à couvert par moments sur la commune de Niangoloko. Des manifestations pluvio-orageuses ont intéressé l'ensemble des sites pilote de la commune de Niangoloko.

A titre indicatif, entre 08 heures hier et 08 heures aujourd'hui, il a été enregistré les quantités de pluie suivantes les sites pilotes de la commune de Niangoloko:

PLUVIOMETRIE ENREGISTREE LE 17 SEPTEMBRE 2024	
Localités pilotes	Pluie en mm
DAGOUNDOUGOU	0,0
KIMINI	54,0
KITODOUGOU	93,0
KOUTOURA	42,0
MIFEREDDOUGOU	20,0
NABONA	80,0
NAHIRA	68,0
NIANGOLOKO	60,0
NOFFESO	NP
YENDERE	71,0





OUTPUT THREE: Access to climate information is improved

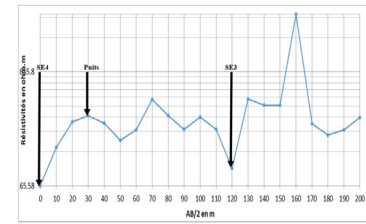
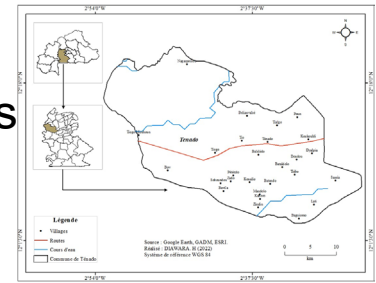


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- In 2021 and 2022, support to Burkina Water Resources Directorate (DRE)
 - Installation and training on the exploitation of automatic hydrometeorological measuring stations
 - Identifying bore hole sites for market gardener in the Tenado pilot rural community



1: Résistivimètre GTR-3 de Geotrade
 2: Batteries
 3: Bobines de réception du potentiel
 4: Bobines d'injection du courant
 5: Marteau
 6: Electrodes



• In 2022, training and provision of smartphones and rain gauges to extension workers and farmers-observers to receive weather information and agrometeorological advices regularly provided by ANAM in the 3 pilot rural communities in Burkina Faso





OUTPUT THREE: Access to climate information is improved



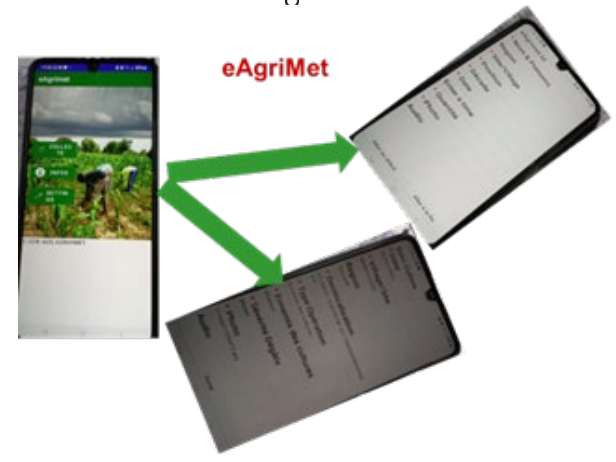
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- Since February 2023 : Launch of national consultations on the optimization of ground observation networks for the purpose of regional climate monitoring
- Since June 2023 : Start of the consultation on designing a **data sharing charter** between the AGRHYMET RCC and the NMHHs (Benin, Togo, Mauritania,.....)
- Development of mobile applications **ClimObs** et **eAgriMet**



CONVENTION
 entre
 le Centre Climatique Régional de l'Afrique de l'Ouest et du Sahel AGRHYMET (CCR- AOS)
 et l'Agence nationale de la météorologie ANAMET du (Togo)

Février 2024



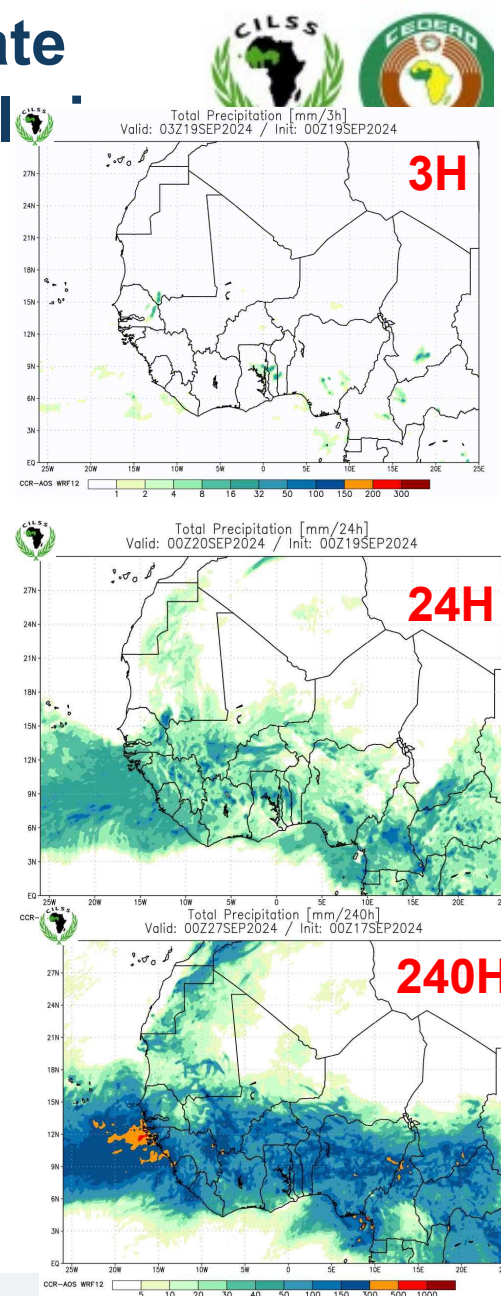
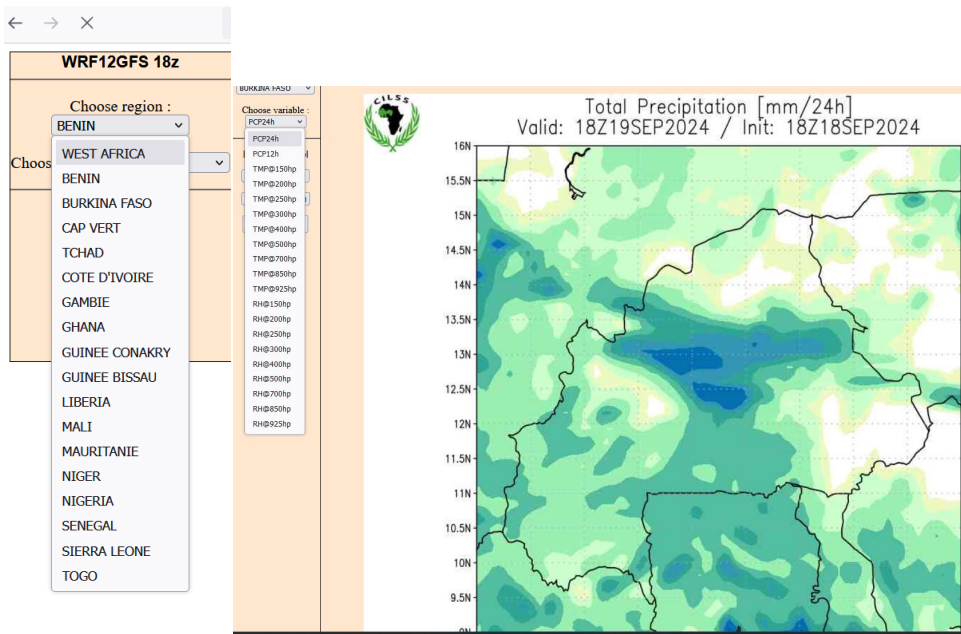


OUTPUT TWO: The provision of climate services at regional and national level effectively ensured

- NWP CCR-AOS wrf 12km & 3km @00Z@06Z@12Z@18Z

(<http://154.127.90.199/model>)

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OUTPUT FOUR: The capacities of the Sahel and West Africa region are



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- In 2021 and 2022: 2 Regional (French and English) and 2 national training workshops conducted on **the SARRA-O** crop monitoring and yield forecasting model in Niger and Chad,
- 2021-2022: Training workshops conducted on the **CLIDATA**, and **HYDROMET** database management software in Togo, Benin, Mauritania, The Gambia, Nigeria, Senegal and Guinea.
- In May 2002, Regional training workshop conducted on the **CLIMSOFT** Climate database management software in Niamey.
- August 2024: Regional workshop **Develop information products on water resources**





OUTPUT FOUR: The capacities of the Sahel and West Africa region are



- March 2023 : **Graduation of 17 senior technicians in Instrument maintenance and micro computing.**
- March 2024 : **Graduation of 17 engineers in agrometeorology**
- Since 2022: staffs from NMHSs have undergone **on-the-job trainings** on
 - seasonal forecasting,
 - climate monitoring,
 - crop modeling and
 - numerical weather forecasting
- Since 2022: **4 PhD students** from Guinea Bissau, Ghana and Niger hosted for their research work on:
 - crop modeling
 - seasonal climate forecast
 - The effects of climate change on the main cereal crops yields in Niger





OUTPUT FIVE: Decision-making for hydroclimatic risk management is strengthened



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- 19 May 2023: Communication ceremony and press conference of the Burkina Faso National authorities on the results of the PRESASS Climate outlook forum
- May-June 2023: **Capacity building workshops of the NAP and NDC actors** of Burkina Faso, Senegal and The Gambia on mainstreaming climate change adaptation in sectoral policies
- Contribution to **International Conferences on CC** in the Sahel (2022 and 2024)



CONFÉRENCE SCIENTIFIQUE INTERNATIONALE SUR LE CHANGEMENT CLIMATIQUE • NIAMEY - NIGER

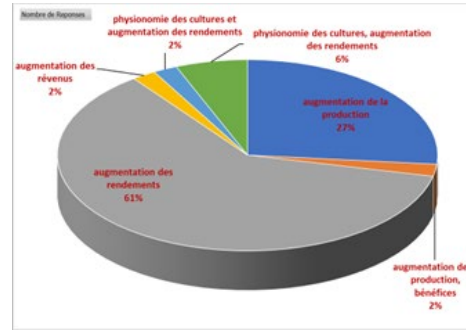
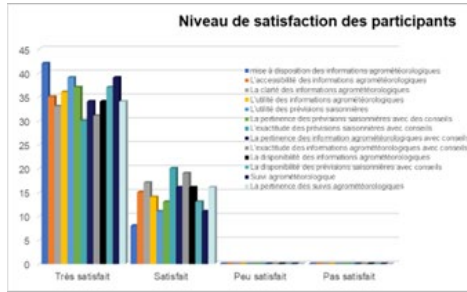
Du 31 mai au 03 juin 2022 à Niamey, République du Niger





Feedback from users

Questionnaire for formers at the end of the season



Interviews during travelling seminars



<https://youtu.be/HcZLBafKa0>

Feedback from producers during PRESASSFarmers, media, DRRA

Tool to collect and disseminate information



Meeting the challenge of making judicious use of seasonal forecasting results by farmers, the testimony of Mercy Nnanna chukwura farmer from Kuje area Council, FCT Nigeria.

For agricultural and pastoral planning based on seasonal forecast results



"... We are grateful because we are enjoying what we are doing as a farmer. We do not have our weekly incomes. We know when to plant and we get what we want. So we are comfortable in our area as a farmer and we are grateful."

The West African region is expected to be one of the regions in the world where the characteristics of the rain season change strongly from one year to the next, but also where production systems are the most dependent on the season's rainfall. To help to adapt better to these situations, seasonal forecasting of rainfall and river runoff is one of the most relevant strategies currently available for the sub-region. It is in this framework that CILSS organizes each year two regional meetings for the preparation and dissemination of seasonal forecasts, one covering the four east regions in the Gulf of Guinea region (PRESAG) and the other covering the east region in the Sahelian and Sahel-Saharan region of CILSS (ECSOFA) zone (PRESASS).

During the PRESASS 2024 organized, from 22 to 26 April 2024 in Abuja, Nigeria, for the AGRI-MET Regional Climate Centre for the West Africa and the Sahel we met a happy farmer invited to the forum to talk about his experience. Here is her story.

"My name is Mercy Nnanna chukwura. I am a smallholder farmer from Kuje area Council, FCT Nigeria. I started farming as a child from my father's land. I get annual. And every year I have a strong feeling that in some farming and poultry farming. I was doing what I know from my father until the last of a year in 2020 when I planted maize. You know, lower yield than in other years. The seed of the maize was not good. And when I planted these maize, towards the flowering time, rain came and gave me a lot of trouble. I had to use a lot of fertilizer. I could not get anything. It died up and that was it. So, along the way when we were doing our activity, we came to meet with NSET and that was how we have a relationship that they began to help us have those package and we got involved with them. Their vision, their insight on what makes business to all. They teach us about the seasonal weather forecast, how the rain season is going to happen, and that have really helped us that we are not using our seeds to drought or dead dry season. Because every year, they come to help us. They help us to get the information about weather so we can do what we want to do."

Today, thanks to the NSET initiative, the training we received and the CILSS and AGRI-MET who have been supporting NSET in their activities, we are grateful because we are enjoying what we are doing as a farmer. We do not lose our weekly incomes. We know when to plant and we get what we want. So we are comfortable in our area as a farmer and we are grateful. Thank you very much to NSET. Thank you to AGRI-MET. Thank you to Nigeria government. Thank you to donors who have been doing a lot to us that our women are getting what they are planting. Because food security is also business success!"





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Thank you for attention



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An initiative of the Organisation of African, Caribbean and Pacific States funded by the European Union

